No.



200200043

THIR UNITHED STRATES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrob Seed Company TIC

THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN CODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY THEREFROM.

SOYBEAN

'SN79596'

In Testimony Messes, I have hereunto set my hand and caused the seal of the Mant Maristy Protection Office to be affixed at the City of Washington, D.C. this twenty fourth day of June, in the year two thousand three.

B2mJkc

Commissioner Plant Variety Protection Office Signicultural Marketing Service gritoreman.

REPRODUCE LOCALLY. Include form number and date on all reproductions	FORM APPROVED - OMB NO. 0581-005				
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) Application is required in order to determine if a plant variety protection certificate is to be issued (7				
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)	U.S.C. 2421). Information is held confident	ial until certificate is issued (7 U.S.C. 2426).			
NAME OF APPLICANT(S) (as it is to appear on the Certificate)	2. TEMPORARY DESIGNATION OR	3. VARIETY NAME			
Asgrow Seed Company LLC	AGF22920	SN79596			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY			
	515-232-7170	PVPO NGMERR UZ 00043			
634 E. LincolnWay	6. FAX (include area code)	R DATE			
Ames, IA 50010	515-232-6905	12/05/2001			
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Botanical)	F FILING AND EXAMINATION FEE			
Glycine max (L.) Merr.	Leguminosae	\$ \$2,105,00			
9. CROP KIND NAME (Common Name)		DATE			
Soybean		12/05/2001			
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, Name)	partnership, association, etc.) (common	CERTIFICATION FEE			
Corporation	%	1320			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION	12. DATE OF INCORPORATION	DATE / j			
Delaware	December 22, 1997	5/2/03			
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPL	ICATION AND RECEIVE ALL PAPERS	14. TELEPHONE (include area code)			
Donald Steffen		515-956-3002			
634 E Lincoln Way	FAX (include area code)				
Ames, IA 50010		515-232-6905			
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. Exhibit A. Origin and Breeding History of the Variety b. Exhibit B. Statement of Distinctness c. Exhibit C. Objective Description of the Variety d. Exhibit D. Additional Description of the Variety e. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2,600 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public reposition) g. Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to PVPO) 17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)					
YES (if "yes," answer items 18 and 19 below)					
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	19. IF "YES" TO ITEM 18, WHICH CLAS SEED?	SSES OF PRODUCTION BEYOND BREEDER			
□ YES □ NO	☐FOUNDATION ☐ REGISTER	RED CERTIFIED			
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRY? ——YES (if "yes," give names of countries and dates) USA — December 11, 2000					
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF APPLICANT (Owner(s))	SIGNATURE OF APPLICANT (Owner(s))				
NAME (Please print or type)	NAME (Please print or type)				
Donald Steffen					
CAPACITY OR TITLE Manager, IP & Regulatory Affairs 12/02/2001	CAPACITY OR TITLE	DATE			
0-470 (04-86) (Previous editions are to be destroyed)					

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ASGROW SEED COMPANY LLC PVP APPLICATION - **SN79596**

EXHIBIT A

ORIGIN AND BREEDING HISTORY

- 1995 Final cross was made in 1994 at Ames, Iowa.
 - Parentage: AI2453/4/A2722/3/A2396*2//A3322/40-3-2
- 1995 F1 generation was grown at Isabela, Puerto Rico and advanced using modified single seed descent.
- 1996 F2 generation was grown at Isabela, Puerto Rico and advanced using modified single seed descent.
- 1996 F3 bulk populations were grown at Ames, Iowa and single plants pulled.
- 1996 F3 derived F4 plants were grown at Rancagua, Chile in progeny rows and variety SN79596 was selected based on agronomic characteristics.
- 1997 F3:5 breeder seed was grown for progeny row increase and at 4 locations in Iowa.
- 1998 F6 seed was grown in yield tests at 10 locations in the midwestern U.S..
- 1999 F7 seed was grown in yield tests at 30 locations throughout the U.S.

Variety SN79596 is uniform and stable within commercially acceptable limits based on trial observations since 1997. As with any other soybean variety, variants can occur for almost any characteristic during the course of repeated sexual reproduction.

ASGROW SEED COMPANY LLC PVP APPLICATION - **SN79596**

EXHIBIT B

NOVELTY STATEMENT

To our knowledge, the soybean varieties that closely resemble SN79596 are A2553 and A2396:

 RR™ gene (Tolerance to glyphosate herbicide) 	SN79596 A2553 A2396	PresentAbsentAbsent
2. Pubescence color	SN79596 A2553 A2396	- Gray - Gray - Gray
3. Pod Wall color	SN79596 A2553 A2396	- Tan - Tan - Brown

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF APPLICANT(S)	Asgrow Seed Compar	ny LLC		FOR OFFICIAL USE ONLY
	-			DUMO MENUBA
ADDRESS (Street and No. or R.F.D.	No., City, State, and ZIP Code)			"ZTT2000432
	634 E. LincolnWay Ames, IA 50010			VARIETY NAME SN79596
				TEMPORARY OR EXPERIMENTAL DESIGNATION AGF22920
PLEASE READ ALL INSTRUC	CTIONS CAREFULLY: Place the a	ppropriate number that descri	es the varietal character of t	his variety in the boxes below.
Place a zero in the first box (e.g.	0 9 9 or 0 9) when	number is either 99 or less or	or less respectively. Data fo	or quantitative
plant characters should be based	on a minimum of 100 plants. Con	parative data should be determ	nined from varieties entered i	in the same trial. Royal
Horticultural Society or any reco	ognized color standard may be used	to determine plant colors; desi	gnate system used:	
Please answer all questions for y	our variety; lack of response may d	elay progress of your applicatio	n, ·	
A. MORPHOLOGY				
Seed Shape:				
3 = Elonga	and T/W ratios < 1.2)	(L/W ratio 4 = Elonga	cal-Flattened > 1.2; L/T ratio < te-Flattened > 1.2;T/W ratio >	
Seed Coat Color:				
1 1 = Yellow	2 = Green	3 = Brown	4 = Black	5 = Other (Please Specify)
Seed Coat Luster:				
1 1 = Dull	2 = Shiny			
Seed Size:				
1 6 . 2 gra	ms/100 seeds		·	
H <u>ilum C</u> olor:				
5 1 = Buff 6 = Black	2 = Yellow 7 = Other (<i>Plea</i>	3 = Brown ase Specify)	4 = Gray	5 = Imperfect Black
Cotyledon Color:				
1 1 = Yellow	2 = Green			

A. MORPHOLOGY (Continued)

Seed Protein Peroxidase Activity:

$$1 = Low$$

$$2 = High$$

Hypocotyl Color:

1 = Green'Evans' or 'Davis'

2 = Green with Bronze**Bands below Cotyledon** 'Woodworth' or 'Tracy'

3 = Light Purple below Cotyledons 'Beeson' or 'Pickett 71' 4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

2 = Purple

3 = White with a Purple Throat

Pod Color:

2 = Brown

Pubescence Color:

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

2 = Semi - Determinate 3 = Indeterminate

4 = Intermediate

Maturity Group:

$$1 = 000$$

$$6 = III$$

$$11 = VIII$$

$$2 = 00$$
$$7 = IV$$

$$3 = 0$$
$$8 = V$$

$$=V$$

$$4 = I$$
$$9 = VI$$

5 = II10 = VII

$$12 = IX$$

$$8 = V$$
 $13 = X$

$$14 = XI$$

 $15 = X\Pi$

Maturity Subgroup:

Please enter a value from 0 - 9

B. DISEASE REACTIONS

$$2 = Resistant$$
 $3 = Tolerant$

Bacterial

Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)

Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

Brown Spot (Septoria glycines Hemmi)

В.	DI	SEASE REAC	TION	S (Continue	ed)	0 = Not Testee	d 1	= Suscep	tible	$_{2}$ 2_{R} Q_{sis} Q_{m}	(Q Q 1	Qer4m3 5
		Frogeye Leaf	Spot	(Cercosport	a sojina	Hara)						
ſ	0	race 1			0	race 2		0	race 3		0	race 4
	0	race 5			0	race 6			Other	(Please Specify)		
	0	Target Spot	(Coryn	espora cass	riicola (Berk. & Curt.)	Wei)					
	0	Downey Mildew (Peronospora trifoliorum var. manchurica (Naum.) Syd. ex Gäum)										
	0	Powdery Mile	dew (A	Microsphaei	ra diffu	sa Cke. & Pk.)						
	0	Brown Stem	Rot (F	Phialophora	gregate	(Allington & C	Chamber	lain) W.	Gams.)			
	0	Stem Canker	(Diap	orthe phase	olorum	(Cke. & Ell.) S	Sacc. var	. caulivor	a Athov	w & Caldwell)		
	0	Pod and Stem Blight (Diaporthe phaseolorum (Cke. & Ell.) Sacc. var. sojae (Lehman) Wehm.)										
	0	Purple Seed Stain (Cercospora kikuchii (T. Matsu. & Tomoyasu) Gardener)										
	0	Rhizoctonia Root Rot (Rhizoctonia solani Kühn)										
Phy	/topl	athora Root Ro	ot (Phy	vtophthora i	megasp	erma Drechs. f.	sp. glyca	inea (Kua	n & Er	win))		
_	2	race 1	2_	race 8		2 race 15	2_	race 22				
_	2	race 2	2	race 9		1 race 16	2	race 23				
	2	race 3	2	race 10		2 race 17	2	race 24				
	2	race 4	2	race 11	ļ:	2 race 18	1	race 25				·
	2	race 5	1	race 12	:	race 19	2	race 26				
	2	race 6	2	race 13		race 20	0	Other (1	Please S	pecify) :		
	2	race 7	2	race 14		2 race 21						
	0	Bud Blight (To	obacco	Ringspot	Virus)				•			
	0	Yellow Mosaic (Bean Yellow Mosaic Virus)										
	0 Cowpea Mosaic (Cowpea Chlorotic Virus)											
	0	Pod Mottle (Be	ean Po	od Mottle V	'irus)							

B. DISEASE REACTIONS (Continued)	0 = Not Tested $1 = Susceptible$	2 = Resistant $3 = Tolerant$
0 Seed Mottle (Soybean Mosaic Virus)		2002000432
Nematode		
Soybean Cyst Nematode (Heterodera glycines	s Ichinohe)	
0 race 1 0 race 4	0 race 9	
0 race 2 0 race 5	1 race 14 (former r. 4)	
1 race 3 0 race 6	Other (Please Specify)	
0 Lance Nematode (Hoplolaimus colum	nbus Sher)	
0 Southern Root Knot Nematode (Mel	oidogyne incognita (Kofoid & White) Chi	twood)
0 Northern Root Knot Nematode (Mel	oidogyne hapla Chitwood)	
0 Peanut Root Knot Nematode (Meloid	logyne arenaria (Neal) Chitwood)	
0 Reniform Nematode (Rotylenchus ren	niformus Linwood & Olivera)	
Javanese Nematode (Meloidogyne jav	vanica (Treub) Chitwood)	
Other Nematode (Please Specify)		
C. PHYSIOLOGICAL RESPONSES	0 = Not Tested 1 = Susceptible	2 = Resistant 3 = Tolerant
3 Iron Chlorosis on Calcareous Soil		
0 Phosphorus		
0 Boron		
0 Aluminum		
0 Salt		
0 Drought		
Other (Please Specify)		

	D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant 3 = T	Colerant
	0 Mexican Bean Beetle (Epilachna va	rivestis Mulsant)		200200	0432
	0 Potato Leaf Hopper (Empoasca fabo	ae (Harris))			
	Other (Please Specify)				
	E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
	2 Metribuzin				
	0 Bentazone				
	1 Sulfonylurea				
	2 Glyphosate				
	1 Glufosinate				
	0 Pendimethalin				
	Other (Please Specify)				
	F. TRANSGENIC COMPOSITION Has the development of the Subject Variety i If yes, please complete the following informat 1. Please state the vector's name: 2. Please state the vector components: 3. Please describe the genetic material succe 4. Please describe the insertion protocol: * A literature citation(s) explaining the four the "Transgenic Composition" portion of	tion requests*. Use essfully transferred i r information reque	additional pages if ne	ecessary.	NO NO
	U.S. Patent No. 5,776,760. Issue Date: July Monsanto Company. Patent Application No.	. 484,274.			
1	ABSTRACT: Genes encoding a glyphosate or transformed bacteria and plants which degrad herbicide.	de glyphosate herbic	ide as well as crop pl	genes are useful in prod ants which are tolerant to	o glyphosate

G. BIOCHEMICAL MARKERS

Please describe any biochemical information here which you believe will be helpful in further describing the Subject Variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

ASGROW SEED COMPANY LLC PVP APPLICATION - SN79596

EXHIBIT D

ADDITIONAL DESCRIPTION OF INVENTION

SN79596 is a mid maturity group II variety with resistance to Roundup tm herbicide. It has very high yield potential. It has superior yields to lines of similar maturity and has excellent agronomic characteristics, including lodging resistance. It has a major gene for Phytophthora resistance, Rps1k, conferring resistance to most races of Phytophthora Root Rot. In tests, it has beaten DEKALB CX229 by 111 % overall, winning at 21 of 30 locations. It is adapted to the mid maturity group II growing areas of Iowa, Illinois, Indiana, Ohio, Michigan and Nebraska. It has only average appearance.

REPRODUCE LOCALLY. Include form number and edition date on all reproduct	ions	FORM APPROVED - OMB No. 0581-005		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in 1974 (5 U.S.C. 552a) and the Paper			
MONIOCE OF MANUEL ING SERVICE		, ,		
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held			
1. NAME OF APPLICANT(S)	confidential until the certificate is issued: 2. TEMPORARY DESIGNATION	1. VARIETY NAME		
Asgrow Seed Company LLC	OR EXPERIMENTAL NUMBER AGF22920	SN79596		
· ·	110122720	5117550		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 634 E. LincolnWay	5. TELEPHONE (Include area code) 515-232-7170	6. FAX (Include area code) 515-232-6905		
Ames, IA 50010	313-232-7170	313-232-0903		
111103, 111 20010	7. PVPO NUMBER	002000452		
	7. PVPO NOIMBER			
8. Does the applicant own all rights to the variety? Mark an "X" in the	appropriate block			
If no, please explain.	ве арргорнате віоск.	YES X NO		
9. Is the applicant (individual or company) a U.S. National or a U.S.	based company?			
If no, give name of country		YES X NO		
10. Is the applicant the original owner?				
If no, please answer one of the following: .		YES X NO		
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	nai(s)?		
YES NO If no, give name of count				
b. If the original rights to variety were owned by a company(ies)	is (are) the evisinal events at LC be			
YES NO If no, give name of count		sed company?		
11. Additional explanation on ownership (If needed, use the reverse	for extra enacal:			
the second of th	ioi oxua space).			
Please Note:				
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:			
 If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals o 	erson must be a U.S. national, national f the U.S. for the same genus and spec	of a UPOV member country, or ies.		
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.	yed the original breeder(s), the company country which affords similar protection	y must be U.S. based, owned by to nationals of the U.S. for the same		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must n	neet one of the above criteria.		
The original breeder/owner may be the individual or company who dir Act for definitions.	rected the final breeding. See Section 4	11(a)(2) ot the Plant Variety Protection		
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a for this information collection is 0581-0055. The time required to complete this information c instructions, searching existing data sources, gathering and maintaining the data needed, an	offection is estimated to average 6 minutes per respons	onse, including the time for reviewing the		
The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the b status. (Not all prohibited bases apply to all programs). Persons with disabilities who require should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).	asis of race, color, national origin, sex, religion, age, alternative means for communication of program inf	disability, political beliefs, and marital or familial ormation (braille; large print, audiotape, etc.)		